

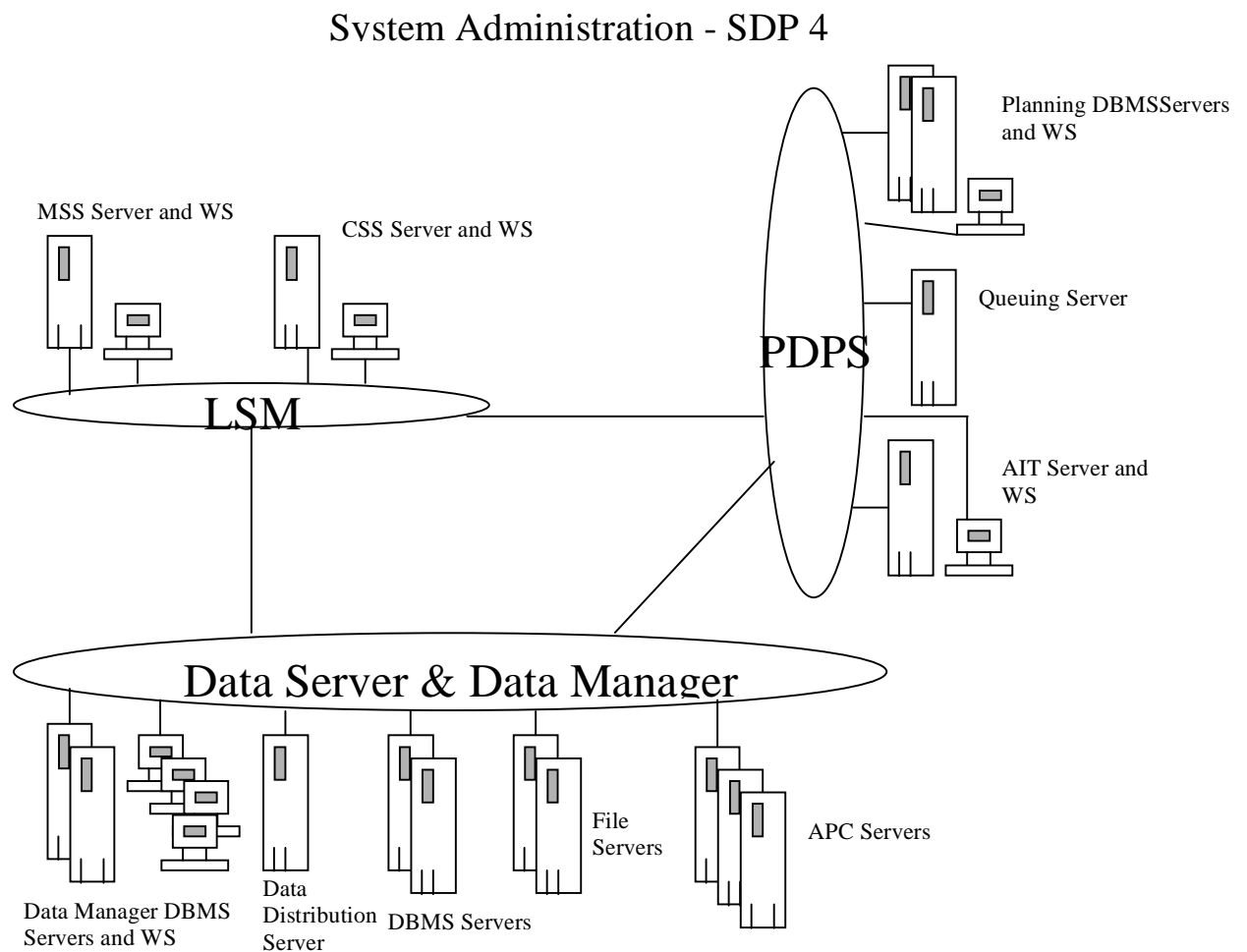
System Administration - SDP4

Test Objectives:

This test deals with the system administration functions within the ECS. This test does not necessarily have mission critical requirements associated with it, however, DAAC personnel feel that these functions need to be tested and verified to ensure that they can perform their duties within the system. The objectives of this test are:

- to verify administration type functionality, and
- system monitoring functionality.

Test Configuration:



Participants and Support Requirements:

Participants:

M&O Support at the DAACs

Communications:

Voice - Telephone

Data - N/A

IP addresses: TBS

Equipment and Software :

Hardware: Data Manager Server, CSS Server, MSS Server, Queuing Sever, AIT Server, APC Server, FSMS Server, DBMS Server, Data Distribution Server, Document Server

Software: Tivoli, HP OpenView, Email

Test Tools:

Tivoli, HP OpenView

Test Data:

TBS

Test Case Descriptions:

SDP4.1 Data Base Administration

This test verifies administration functions associated with the various data bases in the system. Directory Service functionality is demonstrated and verified.

Requirements to be Verified:

ESN-0490#B ESN-0510#B ESN-0610#B

SDP4.2 System Monitoring

This test verifies that the system monitors the various hardware and critical software processes connected to the system. The system is monitored using Tivoli and HP OpenView. The tester halts processes and turns off servers and hardware units to ensure the system is monitoring and responding to the various failures. The elements being monitored in this test include:

- Data Manager Server
- CSS Server Hardware
- CSS Server
- MSS Server Hardware
- MSS Server
- Queuing Server
- AIT Server
- APC Server
- FSMS Server
- DBMS Server
- DATA Distribution Server
- Document Server

Requirements to be Verified:

EOSD4035#B SMC-2505#B

SDP4.3 Email Log File

This test verifies that the email log file is updated with all information being sent into the system.

Requirements to be Verified:

TBD

SDP4.4 Order Tracking

This test verifies that the system operators can use the order tracking GUI to track and review the current status of a user's order.

Requirements to be Verified:

TBD

SDP4.5 Mode Management

This test verifies that the Operator can issue startup and shutdown commands and monitor the applications and processes initiated by a mode activation call.

Requirements to be Verified:

TBD

SDP4.6 SMC System Monitoring

This test case tests the monitoring of hardware and software status to determine their operational states, including:

- a. On-line
- b. Failed
- c. In maintenance
- d. In test mode
- e. In simulation mode

For each performance parameter, the SMC established levels of thresholds will be tested, including:

- a. On/off
- b. Pass/fail
- c. Various levels of degradation

Requirements to be Verified:

SMC-3305#B SMC-3370#B SMC-3375#B

SDP4.7 System Recovery

This test verifies that the system can recover from a system failure due to:

- 1) a loss in the integrity of the data

2) catastrophic violation of the security system

An attempt to breach the system security is monitored to test the system's ability to detect and respond to the violation.

Requirements to be Verified:

EOSD2510#B EOSD2990#B ESN-1380#B SMC-0350#B SMC-5350#B SMC-5355#B
SMC-5365#B SMC-8880#B

SDP4.8 Unscheduled System Shutdown

This test demonstrates the system's ability to respond to an unscheduled system shutdown (such as power outage or system abort) and the ability of the system to be restarted from this state.

Requirements to be Verified:

EOSD2440#B EOSD3000#B

SDP4.9 FTP

This test case tests the ftp functionality between servers at remote DAACs. A datafile is FTP'd from a server at one DAAC to each of the other DAAC's. During separate transfers the originating server and target server are each shutdown.

Requirements to be Verified:

TBD